arada

User Guide

Aarrow

For stoves ranges:

Acorn View

Ecoburn - Series 2

Ecoburn Inset - Series 2

Ecoburn^{Plus}

Ecoburn^{Plus} Inset

Ecoburn DEFRA

i Series

Sherborne - Generation 2

Signature ***Flexi***fuel

Signature ***Flexi***fuel Inset

Signature DEFRA

PLEASE RETAIN THIS GUIDE FOR FUTURE REFERENCE

BK530

EN 13240:2001+

Amd. A2

MADE IN BRITAIN

September 2012 (Rev 02)

Part No. AFS1845

More than 20 years experience has been put into the development of our stoves to ensure ultimate performance and years of trouble free use and enjoyment.

Every detail of the stove has been carefully designed and engineered which is why we are so confident in the reliability of our products.

Should you have any questions about our stoves that are not covered by this manual, please contact the Arada retailer in your area, or call our technical support department on

0844 847 5107.

All Arada stoves are tested to European Standard EN 13240.

WARNINGS

Pure Petroleum coke or Bituminous house coal must not be burned in this appliance.
The use of these fuels will invalidate the appliance guarantee.

Arada recommends the use of HETAS approved smokeless fuels which have been deemed suitable for use on closed appliances, including multi fuel stoves.

If in doubt, contact The Solid Fuel Association, telephone: 0845 601 4406 / 01773 835400 or visit www.solidfuel.co.uk

It is a legal requirement that the installation of all new or replacement, wood or solid fuel heating appliances must obtain building control approval from your local authority. This can be done by using a qualified heating engineer, affiliated to a government approved competent persons scheme such as operated by HETAS.

If in doubt, contact HETAS limited, telephone: 0845 634 5626 or visit www.hetas.co.uk

A fireguard conforming to BS 8423:2002 should be used in the presence of children and old or infirm people. Do not use aerosol sprays or any other flammable materials near the appliance when in use.

Arada Ltd will not be responsible for any consequential or incidental loss or injury however caused. Arada has a policy of continuous product development and therefore we reserve the right to amend any product specification without prior notice.

OPERATING YOUR STOVE

Aarrow stoves are designed to be operated with the fire door(s) closed at all times, apart from refuelling (when alight) or cleaning (when cold).

Never leave the appliance unattended for an extended length of time with the door(s) open.

Visit our Youtube channel for our 'how-to' series of videos:
http://www.youtube.com/aradastoves

FUEL TYPES

WOOD

Any type of wood is suitable provided it is well seasoned and has a moisture content below 20%. This usually implies that the timber has been suitably stored to allow moisture to evaporate for at least nine months in the case of soft woods, and at least twenty four months in the case of hard wood. We recommend that for general burning wood should be split into logs of no more than 100mm (4") diameter.

WARNING: Wet wood must not be used as this will greatly contribute to the creation of tar and creosote which may, in extreme cases, run down the chimney in liquid form. This will seriously damage both the chimney and the appliance and increase the risk of a chimney fire.

Please Note: If you have sticky tar inside the appliance or chimney your wood is 'green' or too wet.

PAPER – Paper will burn successfully. Burn dry paper only or chimney damage will occur.

WARNING: NEVER BURN PLASTICS, HOUSEHOLD WASTE OR LIQUID FUELS IN YOUR STOVE.

SOLID FUEL

Arada recommends the use of HETAS approved smokeless fuels which have been deemed suitable for use on closed appliances, including multi fuel stoves. These include:

Homefire Ecoal
Homefire Ecoal Instant Light
Homefire
Homefire Ovals
Supertherm
Ancit
Phurnacite
Taybrite
Newflame
Maxibrite
Sunbrite
Pureheat

For additional advice on fuels, please refer to The Solid Fuel Association.

LIGHTING THE FIRE

Prior to lighting the stove for the first time, check with the installer that:

- Installation and all building work is complete. (Refer to the installation guide.)
- The chimney is sound, has been swept and is free from obstruction.
- Adequate provision for combustion air has been made, i.e. a permanent vent of at least 550mm sq. per kW of rated output above 5kW, is fitted in the room in which the appliance is installed.
- That Building Regulations and any local by-laws have been followed during installation. See separate installation guide.

- All firebox liner panels and throat plate are in place.
- That the chimney draw has been checked and is within specification. With the chimney warm, the draught should be between 1-2 mm water gauge or 0.1 to 0.2 mbar.
- A Carbon Monoxide detector is correctly installed in the same room as the appliance.

WARNING: An over drawing chimney can cause over firing, resulting in damage to the appliance.

Ensure that you have read and understood these instructions before lighting the fire.

Always wear suitable protective fire gloves when refuelling your stove, such as the Arada glove supplied with your stove.

AIR INLET CONTROLS

If you have a DEFRA stove model please refer to page 6 for instructions on operating the air controls.

Your stove has two air inlet controls. These are located either on the stove body or the door.

The primary air inlet providing under draught to the base of the fire chamber and the airwash system (secondary air) providing overdraught. *The exact controls may differ from those illustrated in this manual but will work in the same way.*

PRIMARY AIR

Air enters the appliance through the control on the bottom of the fire door. Your stove has a single control knob which slides left to right.

Sliding the knob to the right, see Fig. 1. will increase the amount of air intake to the stove.

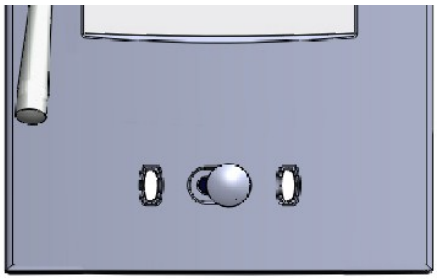


Fig. 1.

To decrease, push the slider to the left, see Fig. 2.

Fig. 2.

AIRWASH SYSTEM / SECONDARY AIR

The airwash has an internal sliding plate with slots, housed in a cover plate, and is located above the fire door. Sliding the control knob to the **RIGHT** as far as it will go, achieves the fully open position, see Fig. 3.

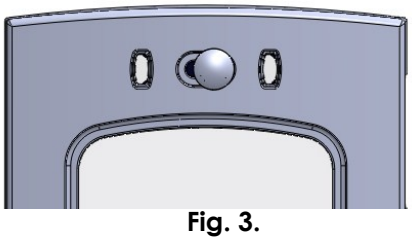


Fig. 3.

Sliding it to the **LEFT** will shut off the air inlet slots as shown in Fig. 4.

Fig. 4.

BURNING WOOD

- On stoves with the ***Flexi***fuel system, the riddling lever should be pushed in.
- Set the fire by using scrunched up newspaper and place a layer of dry kindling wood on top of this.
- The use of two or three fire lighters may assist to light the kindling.
- Set the primary air and airwash controls to the fully open position.
- After the kindling has caught light, you should leave the fire door ajar by about 20mm. This will aid flue draw.
- The flue draw should be established after five minutes, and the kindling reduced to form an ember bed.
- Carefully load the stove with well seasoned wood and close the fire door.
- After ten to fifteen minutes, regulate the airwash control, typically reduce to approximately half way.
- Close the primary air control as generally no air from below the grate is required when burning wood.

Please Note: The high temperature paint acquires durability by being "cured" during the initial firings of the appliance. It will give off fumes which are non toxic, but certain persons may find they have an unpleasant or irritant effect. Ensure that the surrounding area is well ventilated during this time.

BURNING SOLID FUELS

Only applicable to multi fuel and ***Flexi***fuel stoves.

- On stoves with the ***Flexi***fuel system, the riddling lever should be pushed in.
- Set the airwash to one quarter open.
- Set the primary air inlet to fully open.
- Light as with wood, with kindling and fire lighters.
- Once flue draw has been established, after about five minutes, carefully load the stove with fuel and close the door.
- When the fire is well alight regulate the burning rate by controlling the primary air inlet control.
- The airwash should be opened sufficiently to keep the door glass clean.

Whilst burning solid fuel it can be beneficial to occasionally riddle the grate bars so any burnt fuel will fall between the grate bars into the ash pan below. This will ensure a good under draught is maintained.

WARNING: Properly installed, with a suitable flue or chimney, operated and maintained correctly, this appliance will not emit fumes into the dwelling.

Occasional fumes when de-ashing and refuelling may occur. However, persistent fume emission is potentially dangerous and must be investigated by a HETAS registered installer.

Stop using the appliance if you smell fumes or see smoke escaping.

If fume emission does persist, the following immediate actions should be taken:

- Open doors and windows to ventilate room.
- Let the fire die or extinguish and safely dispose of fuel from the appliance.
- Check for flue or chimney blockage, and clean if required.

Seek expert advice from your HETAS registered installer. Do not attempt to re-light the fire until the cause of the fume emission has been identified and corrected.

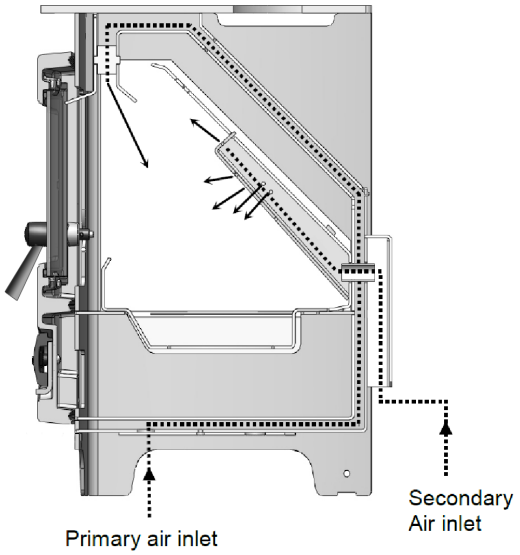
DEFRA AIR INLET CONTROLS

Aarrow DEFRA stoves have one air inlet control.

The air inlet provides air through the base of the stove, via the control slider located under the base of the door.

The air passes from the base of the stove, through a sealed airway, around the back and top of the fire box providing a very hot air flow over the fire bed.

Secondary air also enters the fire box through a pre-set bleed at the rear of the stove, and is heated and distributed through the throat plate arrangement.

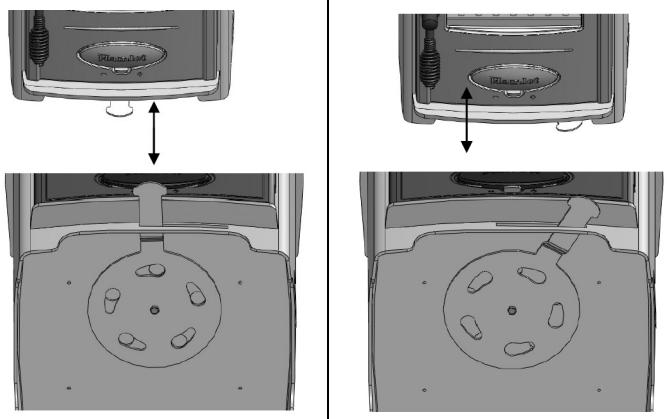


The air control is fully adjustable but has two main settings in normal use.

Fully Open: This position is designed primarily for the ignition period and after refuelling, the control should normally be in this position for a short time only.

Run: Small adjustments within this position will provide the correct amount of air for a clean burn and is the normal position for the control when the stove is lit.

Fully Open **Run**



MULTI FUEL OR *FLEXI*FUEL GRATE

The grate in your Aarrow stove comprises of a series of reciprocating cast iron bars seated on a pivoted comb. These should come pre-assembled in your new stove.

All bars in the grate are identical, but every other bar is turned though 180 degrees, with the ends of the bars marked 'H' sitting on the high sections of the comb, and the ends marked 'L' sitting on the low sections.

The riddling lever, either on the side or front of the stove, can be operated with the stove operating tool to riddle ash into the ash pan

below. Only riddle the stove with the door closed and stop once red embers begin to fall into the ash pan.

After extended use it may be necessary to replace some of the grate bars. Periodic inspection of the bars is recommended and any damaged bars replaced. Also check for obstructions that may prevent the operation of the riddling mechanism.

DOOR GLASS

The door glass should remain clear during normal burning. However, under certain conditions, such as burning at a low rate, using damp wood or overnight burning, the glass may
become somewhat blackened. To remedy this, operate the appliance at a fast rate. Alternatively when the stove is cold, open the door and clean the inside face of the glass with a damp cloth or with glass cleaner (available from stove stockists and online at www.aradastovesandspares.com).

REDUCED BURNING

When wood is burnt slowly in a closed appliance, it produces moisture and tar, which will create condensation and deposits in the chimney. This effect can be minimised by burning hard for a short period, fifteen to twenty minutes, twice a day.

Please Note: To avoid chimney problems your appliance should not be burnt at a reduced burn rate without a period of fast burning.

OVER FIRING & CHIMNEY FIRES

DO NOT over fire your appliance. Firing the stove at maximum for prolonged periods may result in over-firing. If the chimney connector or casing glows red the appliance is being over-fired this may result in a chimney fire.

ASH REMOVAL

The appliance will require ash to be removed periodically but an ash bed of approximately 20mm (3/4") should be maintained. Care must be taken not to burn hands or household objects with falling embers.

The ash pan should be emptied when the level of ash reaches the top of the ash pan. On no account should the ash be allowed to build up to touch the underside of the grate bars, as this will greatly reduce the life span of the grate. The ash will require less frequent removal when burning wood than solid fuels.

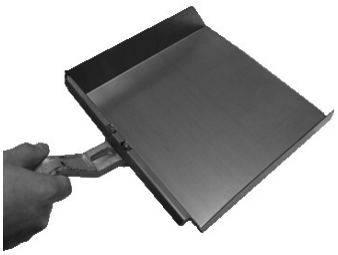


Fig. 5. Operating Tool and Ash Pan

WARNING: The ash can be very hot. Empty only into a metal container. Even if the ash appears cold, red-hot embers may be concealed and could easily start a fire or cause an injury.

MAINTENANCE

SUMMER STORAGE / NON USAGE

Please ensure that your stove is left clean and moving components are well lubricated for the summer months (during periods of prolonged non-use). If possible store the throat plate outside of the stove. Check all moveable components at regular intervals, to ensure they are moving freely.

Allow air movement through the stove, by opening the airwash and primary air inlet control(s) to about half way, open or leave the door ajar. This will allow a free flow of air through the appliance thus preventing moisture and condensation forming inside the stove and chimney. This preventative maintenance will ensure your stove stays in the best condition for the coming winter months.

ADJUSTING THE DOOR HINGES

Once the appliance has been under fire for a period of time the fire door may appear to have moved out of alignment with relation to the door aperture or catch. This is quite normal and due to the settling of the casting.

The fire door can be re-aligned as follows:

1. When the appliance is cold, open the fire door so that it is at right angles to the front of the stove.
2. Lift the fire door up off its hinges.
3. Gently tap the hinge pins to compensate for the misalignment.
4. Re-fit the door and check to ensure it now sits square to the body; if not repeat the above steps.

If the fire door needs to be raised, please follow:

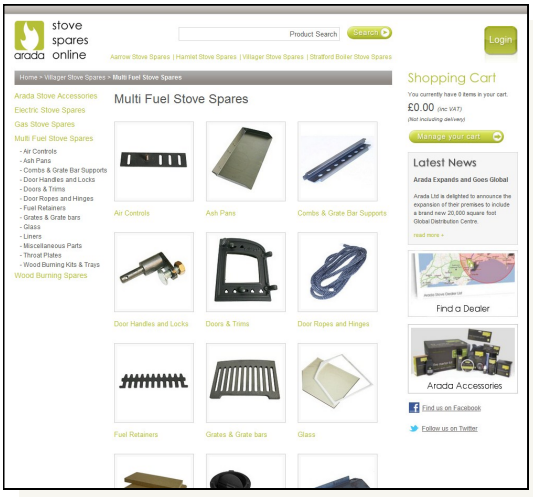
1. When the appliance is cold, open the fire door so that it is at right angles to the front of the stove.
2. Lift the fire door up off the hinges.
3. Drop one washer on the top and bottom hinge pins. Fit the door and check.

REPLACEMENT PARTS

As a leading manufacturer we are conscious of being able to support all our stove users with the supply of spare parts to ensure your continued enjoyment and warmth from your Arada stove. You can find a complete list of spares and consumables such as liners, grate bars and throat plates as well as items to enhance its visual appearance and efficiency such as Arada anthracite stove paint and rope kits.

All the above can be ordered from you local stove dealer or online direct from Arada at:

www.aradastovesandspares.com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- Air Controls
- Ash Pans
- Combs & Grate Bar Supports
- Door Handles and Locks
- Doors & Trims
- Door Ropes and Hinges
- Fuel Retainers
- Grates & Grate bars
- Glass
- Liners
- Miscellaneous Parts
- Throat Plates
- Wood Burning Kits & Trays
Wood Burning Spares
Multi Fuel Stove Spares
Air Controls
Ash Pans
Combs & Grate Bar Supports
Door Handles and Locks
Doors & Trims
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GUARANTEE

Once again we would like to thank you for buying an Aarrow stove.

When you buy an Aarrow stove, you are not only buying a first class appliance, you are buying a commitment from us to look after you and your appliance.

Aarrow stoves comes with a LIFETIME GUARANTEE against splitting or cracking of the main body. The main body being defined as the steel outer casing and items fixed immovably to the casing.

All other parts, which would be subject to normal wear or tear are excluded from this guarantee. These include the firebox liner panels, fuel retainers, throat plate, door rope, door glass, grate bars, gaskets, hotplate and spigot.

This guarantee shall not apply to any stove that has been altered in any way, or which in our professional judgement has been subjected to misuse, neglect, accident, abuse and excessive wear and tear.

The guarantee is conditional upon the appliance being serviced and checked annually by a qualified heating engineer, with documentation to be retained and produced in the event of a claim being made.

Claims are not valid where installation does not conform to appropriate building regulations. The manufacturers decision shall be final. However, if your appliance proves to be defective as a result of faulty materials or workmanship during the guarantee period, we will repair or replace it FREE OF CHARGE.

USE OF SPARE PARTS OTHER THAN THOSE SUPPLIED BY ARADA WILL INVALIDATE THE APPLIANCE WARRANTY.

ARADA WILL NOT BE RESPONSIBLE FOR ANY CONSEQUENTIAL OR INCIDENTAL LOSS, DAMAGE OR INJURY HOWEVER CAUSED.

All guarantee periods commence on the date of purchase and are non-transferable.

Our guarantee is offered as an addition to your statutory rights.

If you think your stove is not operating correctly please call your local Aarrow dealer who will have the knowledge and facilities to help you.

When you call your dealer they will want to know:

1. Your name, address, post code and telephone number.

2. Clear and concise details of the fault.

3. Proof of purchase, installation and annual servicing will also be required.

If further information is required, our technical helpline will be pleased to help.

Please telephone: 0844 8475107 -or -

email: info@arada.uk.com

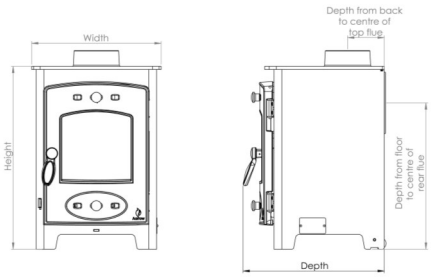
Technical Information

Freestanding

Description	Output kW	Height mm	Height inches	Width mm	Width inches	Depth mm	Depth inches	Height to centre of rear flue mm	Height to centre of rear flue inches	Depth from back to centre of top flue mm	Depth from back to centre of top flue inches
Acorn View 4	1 - 4.5	465	18 1/4	330	13	360	14 1/4	372	14 3/4	93.5	3 3/4
Acorn View 5	1 - 5	485	19	370	14 1/2	360	14 1/4	392	15 1/2	93.5	3 3/4
Ecoburn DEFRA	1 - 4.5	526	20 3/4	391	15 1/2	410	16 1/4	462	18 1/4	98	3 3/4
Ecoburn 5 Wood or Multi fuel	1 - 5	522	20 1/2	397	15 3/4	388	15 1/4	424	16 3/4	94	3 3/4
Ecoburn 7 Wood or Multi fuel	1.5 - 6	558	22	476	18 3/4	386	15 3/4	449	17 3/4	109	4 1/4
Ecoburn 9 Wood or Multi fuel	2 - 9	600	23 1/2	586	23	396	15 1/2	485	19	103	4
Ecoburn 11 Wood or Multi fuel	2.5 - 11	605	23 3/4	672	26 1/2	442	17 1/2	479	19	141	5 1/2
Ecoburn Plus 4	1 - 4	535	21	355	14	365	14 1/4	436	17 1/4	94	3 3/4
Ecoburn Plus 5	1 - 5	550	21 3/4	431	17	365	14 1/4	451	17 3/4	94	3 3/4
Ecoburn Plus 7	1.5 - 7	585	23	465	18 1/4	365	14 1/4	477	18 3/4	102	4
Ecoburn Plus 9	2 - 9	600	23 1/2	541	21 1/4	365	14 1/4	492	19 1/4	102	4
Sherborne Compact	1.5 - 5	505	20	385	15 1/4	360	14 1/4	400	15 3/4	102	4
Sherborne Small	1.5 - 5	512	20 1/4	477	18 3/4	360	14 1/4	400	15 3/4	103	4
Sherborne Medium	2 - 8	530	20 3/4	586	23	364	14 1/4	415	16 1/4	105	4
Sherborne Large	2.5 - 11	546	21 1/2	672	26 1/2	455	18	435	17	141	5 1/2
Signature DEFRA	1 - 4.5	535	21	405	16	372	14 3/4	462	18	98	3 3/4
Signature 5	1 - 5	526	20 3/4	395	15 1/2	390	15 1/2	427	16 3/4	115	4 1/2
Signature 7	1.5 - 7	557	22	480	19	390	15 1/2	450	17 3/4	122	4 3/4
Signature 9	2 - 9	620	24 1/2	598	23 1/2	390	15 1/2	512	20 1/4	122	4 3/4
Signature 11	2.5 - 11	694	27 1/4	662	26	468	18 1/2	566	22 1/4	131	5 1/4

Inset & Cassette Models

Description	Output kW	Height mm	Height inches	Width mm	Width inches	Depth mm	Depth inches	Depth into fireplace mm	Depth into fireplace inches	Depth of front fascia mm	Depth of front fascia inches
i Series 5	1 - 5	450	17 3/4	405	16	351	13 3/4	351	13 3/4	-	-
i Series 7	1.5 - 7	558	22	405	16	351	13 3/4	351	13 3/4	-	-
i Series CB	1 - 5	585	23	445	17 1/2	316	12 1/2	186	7 1/4	124	5
Ecoburn 5 Inset	1 - 5	590	23 1/4	546	21 1/2	407	16	197	7 3/4	210	8 1/4
Ecoburn 7 Inset	1.5 - 7	590	23 1/4	546	21 1/2	570	22 1/2	360	14 1/4	210	8 1/4
Ecoburn Plus 5 Inset	1 - 5	590	23 1/4	536	21	360	14	190	7 1/2	170	6 1/4
Ecoburn Plus 7 Inset	1.5 - 7	590	23 1/4	536	21	490	19 1/2	320	12 1/2	170	6 1/4
Signature 5 Inset	5	590	23 3/4	546	21 1/2	407	16	197	7 3/4	210	8 1/4
Signature 7 Inset	7	590	23 3/4	546	21 1/2	570	22 1/2	360	14 1/4	210	8 1/4



Minimum distance to combustible materials (mm)		Flue Diameter		Nett Efficiency	Mean Flue Gas Temperature	Mean CO Emissions	Add in Boiler (If Available)	Output to Room	Output to Water
Rear	Side	mm	inches			@ 13% O2		kW	kW
-	-	102	4	80%	262°C	0.87%	AIB7	3.8	1.2
-	-	102	4	78%	332°C	0.9%	AIB0	3.2	1.8
400	350	127	5	80.3%	213°C	0.33%	-	-	-
625	525	102	4	74.7%	306°C	0.58%	AIB0	3.2	1.8
650	450	127	5	72.1%	363°C	0.58%	AIB8	4	2
750	500	127	5	71.6%	364°C	0.68%	AIB9	6.4	2.6
800	500	152	6	74.7%	370°C	0.71%	AIB10	7.6	3.4
-	-	102	4	75%	301°C	0.58%	AIB0	2.2	1.8
625	525	102	4	74.7%	306°C	0.58%	AIB8	3	2
650	450	127	5	73%	363°C	0.68%	AIB8	5	2
750	500	127	5	72%	364°C	0.71%	AIB3	5.7	3.3
-	-	102	4	-	-	-	AIB0	3.2	1.8
-	-	127	5	-	-	-	AIB8	3	2
-	-	127	5	-	-	-	AIB9	5.4	2.6
-	-	152	6	-	-	-	AIB10	7.6	3.4
-	-	127	5	80.3%	213°C	0.33%	-	-	-
-	-	102	4	79.4%	263°C	0.49%	AIB12	3.7	1.3
-	-	127	5	73.2%	331°C	0.49%	AIB11	5.3	1.7
-	-	127	5	74.56%	388°C	0.59%	AIB13	6	3
-	-	152	6	75.2%	404°C	0.82%	AIB14	7.6	3.4

Flue Outlet	Nett Efficiency	Mean Flue Gas Temperature	Mean CO Emissions @ 13% O2	Flue Mass Gas Flow (g/s)
Vertical Spigot	78%	-	-	-
Vertical Spigot	79%	-	-	-
Letterbox style	79%	-	-	-
Letterbox style	80.1%	-	-	-
30° sloping flue	72.1%	346°C	0.58	-
Letterbox style	80.1%	-	-	-
30° sloping flue	72.1%	346°C*	0.58*	-
Letterbox style	80.1%	261°C	0.50%	4.1
30° sloping flue	72.1%	346°C	0.58%	6.0

Final Factory Check list

Quality / Finish	
Flue Outlet	
Hot Plate	
Fuel Retainer	
Firebox Liners	
Throat Plate	
Door Catch / Door Handle	
Operating Tool	
Stove Glove	
Grate / Fuel Bed	
Installation Guide	

Model:

Assembled By……..... Checked by……

We recommend recording where and when you purchased your stove for future reference:

The Fireworks
Weycroft Avenue
Axminster
Devon
EX13 5HU
www.arada.uk.com
www.aradastovesandspares.com